

Product datasheet

Recombinant Human Factor X protein ab158407

1 Image

Description

Product name	Recombinant Human Factor X protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	NNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREVF EDSDKTNEFW NKYKGDGQCETSPCQNQGKCKDGLGEYTCTCLEGFEGK NCELFRKLCSL DNGDCDQFCHEEQNSVVCSCARGYTLADNGKACIPTGPY PCGKQTLERRK RSVAQATSSSGEAPDSITWKPYDAADLDPTENPFLLDF NQTQPERGDNN LTRVGGQECKDGECPWQALLINEENEGFCGGTILSEFYIL TAAHCLYQA KRFKVRVGDNRNTEQEEGGEAVHEVEVVIKHNRFKETYD FDIAVLRKTP ITFRMNVAPACLPERDWAESTLMTQKTGMVSGFGRTHEKG RQSTRKMLE VPYVDRNSCKLSSSFITQNMFCAGYDTKQEDACQGDSG GPHVTRFKDTY FVTGMSWGEGCARKGKYGYTKVTAFLKWIDRSMKTRGL PKAKSHAPEV ITSSPLK
Amino acids	32 to 488
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab158407** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	ELISA

Form Liquid

Additional notes

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.

Tissue specificity Plasma; synthesized in the liver.

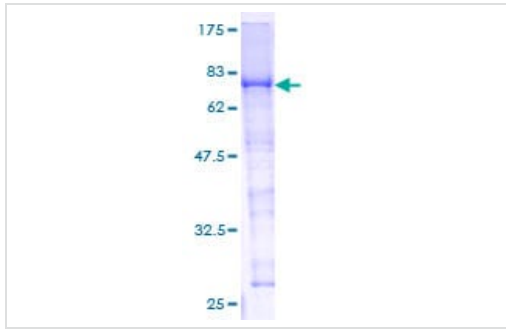
Involvement in disease Defects in F10 are the cause of factor X deficiency (FA10D) [MIM:227600]. A hemorrhagic disease with variable presentation. Affected individuals can manifest prolonged nasal and mucosal hemorrhage, menorrhagia, hematuria, and occasionally hemarthrosis. Some patients do not have clinical bleeding diathesis.

Sequence similarities Belongs to the peptidase S1 family.
Contains 2 EGF-like domains.
Contains 1 Gla (gamma-carboxy-glutamate) domain.
Contains 1 peptidase S1 domain.

Post-translational modifications The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium.
N- and O-glycosylated.
The activation peptide is cleaved by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway).
The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

Cellular localization Secreted.

Images



ab158407 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Factor X protein
(ab158407)

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